AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

- 1. (Original) A liquid crystal display, comprising:
- a memory storing, until a next time, current data indicating current brightness of each pixel provided in a liquid crystal panel;
- a look-up table precedently storing (i) combinations of previous data and the current data, the combinations having possibilities to be inputted, and (ii) output signals corresponding to the respective combinations;

control means for outputting an output signal as corrected current data in order to facilitate grayscale transition from a previous time to a current time, by reading out, from the look-up table, data corresponding to a combination of previous data read out from the memory and current data, and outputting that data or that data after being interpolated, instead of the current data;

a heater heating the liquid crystal panel; and

heater control means for controlling start and stop of heating by the heater, in such a manner as to keep a temperature of the liquid crystal panel to be not more than ±3°C of a predetermined target temperature which is within a range between 33°C and 63°C.

- 2. (Original) The liquid crystal display as defined in claim 1, wherein, a number of the look-up table is one.
- 3. (Original) The liquid crystal display as defined in claim 1, wherein, the look-up table is arranged so as to correspond to the target temperature.
- 4. (Original) The liquid crystal display as defined in claim 1, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 5. (Original) The liquid crystal display as defined in claim 2, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 6. (Original) The liquid crystal display as defined in claim 1, wherein, the liquid crystal panel includes a liquid crystal cell in vertical align mode and is driven in normally black mode.
 - 7. (Original) A liquid crystal display, comprising:
- a memory storing, until a next time, current data indicating current brightness of each pixel provided in a liquid crystal panel;

a look-up table precedently storing (i) combinations of previous data and the current data, the combinations having possibilities to be inputted, and (ii) output signals corresponding to the respective combinations;

control means for outputting an output signal as corrected current data in order to facilitate grayscale transition from a previous time to a current time, by reading out, from the look-up table, data corresponding to a combination of previous data read out from the memory and current data, and outputting that data or that data after being interpolated, instead of the current data;

a heater heating the liquid crystal panel; and

heater control means for controlling the heater so as to either stop the heating by the heater when a temperature of the liquid crystal panel exceeds a threshold value which is 1°C through 1.5°C higher than a target temperature, or start the heating by the heater when the temperature of the liquid crystal panel goes below a threshold value which is 1°C through 1.5°C lower than the target temperature, the target temperature being determined in advance to be in a range between 33°C and 63°C.

8. (Original) The liquid crystal display as defined in claim 7, wherein, a number of the look-up table is one.

- 9. (Original) The liquid crystal display as defined in claim 7, wherein, the look-up table is arranged so as to correspond to the target temperature.
- 10. (Original) The liquid crystal display as defined in claim 7, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 11. (Original) The liquid crystal display as defined in claim 8, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 12. (Original) The liquid crystal display as defined in claim 7, wherein, the liquid crystal panel includes a liquid crystal cell in vertical align mode and is driven in normally black mode.
 - 13. (Original) A liquid crystal display, comprising:
- a memory storing, until a next time, current data indicating current brightness of each pixel provided in a liquid crystal panel;
- a look-up table precedently storing (i) combinations of previous data and the current data, the combinations having possibilities to be inputted, and (ii) output signals corresponding to the respective combinations;

control means for outputting an output signal as corrected current data in order to facilitate grayscale transition from a previous time to a current time, by reading out, from the look-up table, data corresponding to a combination of previous data read out from the memory and current data, and outputting that data or that data after being interpolated, instead of the current data;

a heater heating the liquid crystal panel; and

heater control means for controlling start and stop of heating by the heater, in such a manner as to keep a difference between a temperature of the liquid crystal panel and a target temperature to be not more than a predetermined threshold value, the target temperature being a temperature at which, by facilitating the grayscale transition by the control means, each pixel is virtually able to reach a desired grayscale level in every grayscale level transition.

the threshold value being set in such a manner as to keep a difference between a grayscale level at which a pixel reaches as a result of the grayscale level correction by the control means and a target grayscale level to be within an allowable range.

14. (Original) The liquid crystal display as defined in claim 13, wherein, a number of the look-up table is one.

- 15. (Original) The liquid crystal display as defined in claim 13, wherein, the look-up table is arranged so as to correspond to the target temperature.
- 16. (Original) The liquid crystal display as defined in claim 13, wherein, the target temperature is determined to be within a range between 33°C and 63°C.
- 17. (Original) The liquid crystal display as defined in claim 14, wherein, the target temperature is determined to be within a range between 33°C and 63°C.
- 18. (Original) The liquid crystal display as defined in claim 13, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 19. (Original) The liquid crystal display as defined in claim 14, wherein, the target temperature is determined to be within a range between 48°C and 63°C.
- 20. (Original) The liquid crystal display as defined in claim 13, wherein, the allowable range is such a range that an error between

a target brightness and a brightness obtained as a result of the grayscale transition to the current time is not more than ±20%.

- 21. (Original) The liquid crystal display as defined in claim 14, wherein, the allowable range is such a range that an error between a target brightness and a brightness obtained as a result of the grayscale transition to the current time is not more than ±20%.
- 22. (Original) The liquid crystal display as defined in claim 13, wherein, the liquid crystal panel includes a liquid crystal cell in vertical align mode and is driven in normally black mode.
- 23. (New) The liquid crystal display as defined in claim 1, wherein, the heater control means controls start and stop of heating by the heater irrespective of ambient temperature.